



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 28, 2017

Michael Hall  
Product Registration Manager  
BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

Subject: Label Amendment: Adds tank mixing section; Adds crop rotation and PBI information to "Seed Labeling Note" section

Product Name: Stamina F3 Cereals Fungicide Seed Treatment

EPA Registration Number: 7969-322

Application Date: May 18, 2017

Decision Number: 529762

Dear Mr. Hall:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions, please me by phone at 703 308-9443, or via email at [kish.tony@epa.gov](mailto:kish.tony@epa.gov)

Sincerely,

A handwritten signature in black ink, appearing to read "Tony Kish". The signature is written in a cursive style with a large, stylized "T" and "K".

Tony Kish, Product Manager 22 Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure: Stamped Label



We create chemistry

Group 3 4 11 Fungicide



# Stamina<sup>®</sup> F3 Cereals

## Fungicide Seed Treatment

**For commercial and on-farm use**

**A liquid flowable for control of various seedborne and soilborne diseases in barley, oats, rye, triticale and wheat**

**Active Ingredients:**

pyraclostrobin*: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester) . . . . .	1.59%
triticonazole**: 5-[[4-chlorophenyl)methylene]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol . . . . .	1.59%
metalaxyl***: <i>N</i> -(2,6-dimethylphenyl)- <i>N</i> -(methoxyacetyl) alanine methyl ester . . . . .	0.93%

**Other Ingredients:** . . . . . 95.89%

**Total:** . . . . . 100.00%

\* Contains 0.14 lb of the active ingredient pyraclostrobin per U.S. gallon  
\*\* Contains 0.14 lb of the active ingredient triticonazole per U.S. gallon  
\*\*\* Contains 0.08 lb of the active ingredient metalaxyl per U.S. gallon

**EPA Reg. No. 7969-322**

**EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

**Net Contents:**

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes; then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).</p> <p><b>NOTE TO PHYSICIAN:</b> No specific antidote is available. Treat symptomatically.</p>	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils

### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

**DO NOT** apply directly to water, or to areas where surface water is present, or intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

If treated seed is spilled outdoors or in areas accessible to birds or endangered species, promptly clean up and dispose of properly to prevent ingestion. Dispose of all excess treated seed by burying seed away from bodies of water.

### Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of fungicide application.

**DO NOT APPLY** this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions, and **Conditions of Sale and Warranty** are to be followed.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and the restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **24 hours**.

**EXCEPTION:** If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves made of any waterproof material

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

### Pesticide Storage

Store in original container. Keep container closed and in a secure place. Store in an area that is out of reach of children and animals, away from food, feedstuffs, fertilizers and seed. Protect from frost and freezing.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

### Container Handling

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

(continued)

## STORAGE AND DISPOSAL (continued)

### Container Handling (continued)

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**Returnable Containers.** After use, return cleaned container to point of purchase or designated locations. **DO NOT** reuse container for any other purpose. Refill only with pesticide. For information on the disposal of unused or unwanted product, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

## In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

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## Product Information

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**Stamina® F3 Cereals fungicide seed treatment** is a liquid seed treatment used for control or suppression of certain seedborne and soilborne diseases of barley, oats, rye, triticale and wheat. **Stamina F3 Cereals** will generally increase emergence and plant stands by controlling or suppressing these diseases.

Seed treatment applications with **Stamina F3 Cereals** have been associated with more rapid and increased emergence of seedlings under certain cold conditions.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>.

**Stamina F3 Cereals** contains an EPA-approved dye that imparts an unnatural color to the treated seed to prevent its accidental use as a food or feed for animals. Refer to 21 CFR, Part 2.25.

See the following table for diseases controlled or suppressed by **Stamina F3 Cereals**.

**When handling Stamina F3 Cereals and when treating seed or while augering or handling treated seed, work in a well-ventilated area.**

## Stamina® F3 Cereals fungicide seed treatment Crop-specific Instructions

Crop	Disease Controlled	Disease Suppressed <sup>1</sup>	Rate (fl ozs/100 lbs seed)
<b>Barley</b>	Common root rot <i>Cochliobolus</i> spp.  Covered smut <i>Ustilago hordei</i>  Dry seed decay <i>Penicillium</i> spp.  False loose smut <i>Ustilago nigra</i>  Fusarium seed rot <i>Fusarium</i> spp.  Fusarium seedling blight <i>Fusarium</i> spp.  Pythium damping off <i>Pythium</i> spp.  Rhizoctonia root rot <i>Rhizoctonia solani</i>  True loose smut <i>Ustilago nuda</i>	Fusarium crown rot <i>Fusarium</i> spp.  Fusarium root rot <i>Fusarium</i> spp.	4.6
<b>Oats</b>	Common root rot <i>Cochliobolus</i> spp.  Covered smut <i>Ustilago kollerii</i>  Fusarium seed rot <i>Fusarium</i> spp.  Fusarium seedling blight <i>Fusarium</i> spp.  Loose smut <i>Ustilago avenae</i>  Pythium damping off <i>Pythium</i> spp.	Fusarium crown rot <i>Fusarium</i> spp.  Fusarium root rot <i>Fusarium</i> spp.	4.6

(continued)

**Stamina® F3 Cereals fungicide seed treatment Crop-specific Instructions** *(continued)*

Crop	Disease Controlled	Disease Suppressed <sup>1</sup>	Rate (fl ozs/100 lbs seed)
<b>Rye</b>	Common bunt <i>Tilletia caries</i>  Common root rot <i>Cochliobolus</i> spp.  Fusarium seed rot <i>Fusarium</i> spp.  Fusarium seedling blight <i>Fusarium</i> spp.  Pythium damping off <i>Pythium</i> spp.	Fusarium crown rot <i>Fusarium</i> spp.  Fusarium root rot <i>Fusarium</i> spp.	4.6
<b>Triticale and Wheat</b>	Common bunt <i>Tilletia caries</i>  Common root rot <i>Cochliobolus</i> spp.  Dry seed decay <i>Penicillium</i> spp.  Flag smut <i>Urocystis agropyri</i>  Fusarium seed rot <i>Fusarium</i> spp.  Fusarium seedling blight <i>Fusarium</i> spp.  Loose smut <i>Ustilago nuda</i> var. <i>tritici</i>  Pythium damping off <i>Pythium</i> spp.  Rhizoctonia root rot <i>Rhizoctonia solani</i>	Fusarium crown rot <i>Fusarium</i> spp.  Fusarium root rot <i>Fusarium</i> spp.	4.6

<sup>1</sup> Suppression is defined as suboptimal control which is still of commercial benefit.

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## Application Method

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Seed should be well conditioned and free of chaff before treating with **Stamina® F3 Cereals fungicide seed treatment**. **Stamina F3 Cereals** may be applied using standard commercial seed treatment equipment (such as, but not limited to, slurry or mist-type equipment) or on-farm seed treatment equipment. **Stamina F3 Cereals** may also be used in on-the-go type air seeder treatment systems.

Apply **Stamina F3 Cereals** to barley, oats, rye, triticale and wheat at the rate of 4.6 fluid ounces of product per 100 pounds of seed. Thorough seed coverage and proper application equipment calibration is essential for good disease control. To achieve thorough coverage, **Stamina F3 Cereals** may be diluted with water, if needed, into a slurry. Direct application into a planter box is prohibited.

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## Tank Mixing Information

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### Tank Mix Partners

When using **Stamina F3 Cereals** in a tank mixture with other seed treatment products, follow all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations on the tank mix partner label. **DO NOT** exceed label dosage or application rate. The most restrictive label precautions and limitations must be followed. **Stamina F3 Cereals** must not be mixed with any product that prohibits such mixing.

### Compatibility Test for Tank Mix Components

When tank mixing **Stamina F3 Cereals**, always test compatibility before use by performing a jar test as follows:

1. Add all intended seed treatment products and the appropriate amount of water in a clear glass jar.
2. Mix well and allow to sit for one hour.
3. Remix and observe for physical incompatibility.

Also test with the seed to ensure the combination of tank mix products does not have detrimental effects on the seed.

### Mixing Order

For containers 5 gallons or less, shake well before use. For containers greater than 5 gallons, recirculate before use.

1. **Water** - Add 3/4 of the required volume of water to the mix tank and turn on agitation.
2. **Agitation** - Mechanical agitation is required for proper mixing of **Stamina F3 Cereals**.
3. **Dye or colorant**
4. **Wettable powders**
5. **Soluble powders**
6. **Flowable formulations** (such as **Stamina F3 Cereals**)
7. **Emulsifiable concentrates**
8. **Water** - Remaining 1/4 of required water volume is added last and can be used as rinsate for the chemical container or to adjust the total slurry to compensate for water displacement by powdered products.

Maintain agitation until the entire slurry mixture has been used.

Ensure seed is dry before bagging.

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## Use Restrictions

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- **DO NOT** use treated seed for food, feed or oil processing.
- **DO NOT** store **Stamina F3 Cereals** near feed or foodstuffs.
- **DO NOT** contaminate feed or foodstuffs.
- **DO NOT** contaminate domestic or irrigation waters.
- **DO NOT** plant crops within 30 days after planting **Stamina F3 Cereals**-treated seed unless permitted according to the seed labeling note.
- **DO NOT** use the same auger for treating seed that will handle commercial or feed grains.
- **DO NOT** store leftover treated seed where there is a chance of it becoming mixed with untreated seed. Store treated seed in cool, dry conditions.
- **Stamina F3 Cereals** is not for use in California.

## SEED LABELING NOTE

Seed treated with this product that is then packaged or bagged for future use must contain the following labeling on the outside of the seed package or bag.

**“This seed has been treated with Stamina® F3 Cereals fungicide seed treatment containing pyraclostrobin, triticonazole, and metalaxyl. DO NOT use treated seed for food, feed or oil purposes. Store treated seed away from food and feedstuffs. DO NOT allow children, pets or livestock to have access to treated seed. Wear long pants, long-sleeved shirt, shoes and socks, and chemical-resistant gloves made of any waterproof material when opening this bag or handling (e.g., loading, pouring) treated seed or seed pieces.**

**Treated seed exposed on soil surfaces may be hazardous to wildlife. Plant treated seed into the soil to the recommended minimum depth or greater to minimize exposure. Cover or collect treated seed spilled during loading and planting, in particular at row ends and field corners.**

**Dispose of all excess treated seed by burying seed away from bodies of water. DO NOT enter or allow worker entry into areas with treated seeds during the restricted entry interval of 12 hours, with the exception that workers may enter if they will have no contact with the soil/media subsurface. DO NOT contaminate bodies of water when disposing of planting equipment washwater. Dispose of seed packaging or containers in accordance with local requirements. Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.**

**In the event of crop failure or harvest of a crop grown from this seed, the field may be replanted immediately with barley, oats, rye, triticale, wheat, or any other crop for which tolerances for pyraclostrobin, triticonazole, and metalaxyl exist. For all other crops, the minimum plant back interval is 30 days from the date this seed was planted. A cover crop without these tolerances may be planted for purposes of erosion control or soil improvement; however, the crop may not be grazed or harvested for food or feed.”**

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as the presence of other or untested or unapproved materials, seed of low quality or low vigor or low germination, use of the product in a manner inconsistent with its labeling, misapplication of the product, or weather conditions at planting or environmental conditions during seed storage, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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007969-00322.20170515.NVA 2017-04-379-0081  
Supersedes: NVA 2011-04-379-0051

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We create chemistry